WHAT IS CLAIMED IS:

- 1. A power controlling system, comprising:
- a power supply means for rectifying and/or compensating an input power;
- a plurality of transformers for receiving power from the power supply means and for outputting a voltage therefrom;
- a controller for controlling a power circuit and for outputting a plurality of DPM control signals according to DPM mode;
- a power control means connected to the transformers and the controller, for controlling power to other elements except the controller according to the DPM mode; and
- a transformer controller for outputting power to control the transformers under the control of the power control means.
- 2. The system according to claim 2, further comprises a main power switch for controlling the transformers by an output of the transformer controller.
- 3. The system according to claim 1, wherein the power supply means comprises a power factor controller and a rectifier, which are connected between an input power and a primary side of a main transformer, for feeding an output voltage to the main transformer by compensating a power factor and/or smoothing an input power from outside.

- 4. The system according to claim 1, wherein the transformers comprises a main transformer and a sub transformer, and a primary side thereof receives a DC voltage from the rectifier and a secondary side thereof outputs at least one voltage for use in each circuit in a display.
- 5. The system according to claim 4, wherein one end of the primary side of the main transformer is connected to the rectifier and the other end is connected to a main power switch.
- 6. The system according to claim 4, wherein one end of the primary side of the sub transformer is connected to the rectifier and the other end is connected to a sub power controller.
- 7. The system according to claim 4, wherein the power control means comprises at least one power-saving part that is connected to an arbitrary point of a secondary side of the main transformer, and another separate power-saving part connected to the at least one power-saving part.
- 8. The system according to claim 7, wherein a first power-saving part out of the at least one power-saving part is connected to an arbitrary point of the secondary side of the

main transformer, and outputs a predetermined voltage in response to a first DPMF signal that is output from the controller or Micom according to a DPM mode.

- 9. The system according to claim 8, wherein the first power-saving part comprises at least one transistor (Q1, Q2) and at least one resistor.
- 10. The system according to claim 9, wherein an emitter of Q1 is connected to an arbitrary point of a main transformer via a diode (D1).
- 11. The system according to claim 9, wherein a collector of Q1 is an output terminal for outputting a predetermined voltage, and a base of Q1 is connected to a collector of Q2 via a resistor.
- 12. The system according to claim 9, wherein a DPMF signal, which is a first DPM signal of Micom the controller, is input to the base of Q2 via a resistor.
- 13. The system according to claim 9, wherein the transistor Q1 and Q2 is a PNP transistor and a NPN transistor, respectively.
- 14. The system according to claim 7, wherein a second power-saving part out of the at least one power-saving part is connected to an arbitrary point of the secondary side of

the main transformer, and outputs a predetermined voltage in response to a DPMS signal that is a second DPM signal output from Micom the controller according to a DPM mode.

- 15. The system according to claim 14, wherein the second power-saving part comprises at least one transistor (Q3, Q5), a diode (D5), and at least one resistor.
- 16. The system according to claim 15, wherein the transistor Q3 and Q5 is a PNP transistor and a NPN transistor, respectively.
- 17. The system according to claim 16, wherein an emitter of Q3 is connected to an arbitrary point of a secondary side of a main transformer via a diode (D2).
- 18. The system according to claim 16, wherein a base of Q3 is connected to a collector of Q5 via a resistor.
- 19. The system according to claim 16, wherein a second DPMS signal of Micom is input to a base of Q5.
- 20. The system according to claim 16, wherein a collector of Q5 is connected to a base of Q3 via a resistor.

- 21. The system according to claim 16, wherein a resistor is inserted between an emitter and a base of Q3.
- 22. The system according to claim 15, wherein a cathode of the diode is connected to an emitter of Q3, and an anode of the diode is connected to a secondary side f a sub transformer via a different diode.
- 23. The system according to claim 7, wherein a third power-saving part out of the at least one power-saving part is connected to the first power-saving part and/or the second power-saving part, and outputs a predetermined voltage.
- 24. The system according to claim 23, wherein the third power-saving part comprises at least one of a transistor Q4, a Zener diode (ZD1), and a diode (D3).
 - 25. The system according to claim 24, wherein the transistor is a NPN transistor.
- 26. The system according to claim 25, wherein a base of the transistor is connected to a collector of a first power-saving part via a resistor.
- 27. The system according to claim 25, wherein a collector of the transistor is connected to a collector of Q3 of a second power-saving part.

- 28. The system according to claim 24, wherein an anode of the Zener diode (ZD1) is connected to an anode of the diode (D3), and a cathode of the Zener diode is connected to a base of Q4.
- 29. The system according to claim 24, wherein an anode of the diode (D3) is connected to an anode of the Zener diode (ZD1).
- 30. The system according to claim 1, wherein the transformer controller comprises at least one of a light-transmitting part and a light-receiving part.
- 31. The system according to claim 30, wherein the light-receiving part is connected to one end of the second power-saving part and to the secondary side of the sub transformer.
- 32. The system according to claim 30, wherein an operation of the light-transmitting part is controlled by an operation of the second power-saving part.
- 33. The system according to claim 30, wherein the light-transmitting part comprises a diode (D4) and a photo diode (PD1).

- 34. The system according to claim 33, wherein a cathode of the diode is connected to a base of Q3 of a second power-saving part, and an anode of the diode is connected to a cathode of the photo diode (PD1).
- 35. The system according to claim 33, wherein an anode of the photo diode (PD1) is connected to a secondary side of a sub transformer via a diode (D6).
- 36. The system according to claim 30, wherein the light-receiving part is connected to a main power switch and a tertiary side of a sub transformer.
- 37. The system according to claim 30, wherein the light-receiving part comprises at least one of a diode (D7), a resistor (R7), and a phototransistor (PT1).
- 38. The system according to claim 37, wherein an emitter of the phototransistor (PT1) is connected to a power of a main power switch, and a collector of the phototransistor (PT1) is connected to a cathode of the diode via the resistor.
- 39. The system according to claim 37, wherein an anode of the diode is connected to one end of a tertiary side of a sub transformer (T2).

- 40. The system according to claim 30, wherein a photo diode (PD1) of the light-transmitting part and a phototransistor (PT1) of the light-receiving part are used as a light-emitting element and a light-receiving element of a photo coupler, respectively.
- 41. A power controlling system having a main transformer and a sub transformer, which, in response to a first and second DPM signals output from a display controller, induces from a AC voltage being input from outside at least one voltage for use in a display from secondary sides of the main transformer and the sub transformer and outputs the induced voltages, the system comprising:
- a first power-saving part connected to an arbitrary point of a secondary side of the main transformer, for outputting a predetermined voltage in response to the first DPM signal output from the controller;
- a second power-saving part connected to an arbitrary point of a secondary side of the main transformer, for outputting a predetermined voltage in response to the second DPM signal output from the controller;
- a main power switch connected to one end of a primary side of the main transformer, for controlling an operation of the main transformer; and
- a transformer controller for controlling an operation of the main power switch according to an operation of the second power-saving part.
 - 42. The system according to claim 41, further comprising:

- a third power-saving part connected to the first and second power-saving parts, wherein the third power-saving part is turned off when the first power-saving part is turned off.
- 43. The system according to claim 41, wherein when an applied signal from the transformer controller to the second power-saving part is a low level signal, a corresponding switching means is turned off, and an applied voltage to the transformer controller becomes greater than a voltage of another switch connected to the switching means.
- 44. The system according to claim 43, wherein when DPMF/DPMS signals from the transformer controller is "Low" and "Low", Q5 Transistor of the second power-saving part is turned off, and a base voltage of Q3 becomes greater than an applied voltage (+B7) to the transformer controller, cutting off a current to a PD1, whereby a PT1 and a main power switch are turned off.
- 45. The system according to claim 41, further comprises a sub power controller for controlling the sub transformer that operates by an applied voltage from a rectifier.
- 46. The system according to claim 45, wherein the transformer controller's voltage is output, being induced by an applied voltage to a primary side of the sub transformer.
 - 47. A power controlling method, comprising:

determining an input DPM mode to a power-saving part used as a power control means;

when input DPM signals are all low level signals, controlling an output of the power-saving part according to the input signals;

under an operation of the power-saving part or an output thereof, controlling at least one of the power-saving part, another power-saving part, and a transformer controller used as a main power controller; and

after controlling the main power controller, operating a sub power to supply power only to the controller.

- 48. The method according to claim 47, wherein input DPM signals are first and second DPMS signals.
 - 49. A power controlling method, comprising:

inputting at least one low-level DPM signal to a power-saving part;

controlling the power-saving part, another power-saving part, or a light-transmitting part/a light-receiving part of a main power controller, under an operation of the power-saving part or an output thereof;

controlling a main transformer, in a main power switch, by using the controlled output; and

operating a sub transformer to apply a voltage only to Micom used as a controller.